

IFW

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Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Application Number	10/627,939
Filing Date	July 25, 2003
First Named Inventor	Michael Robert Samuels, Et Al.
Art Unit	3742
Examiner Name	Quang T. Van
Attorney Docket Number	AD6900US

Please check only one of boxes 1 or 2 below:

(If no box is checked, this paper will be treated as a request for express abandonment as if box 1 is checked.)

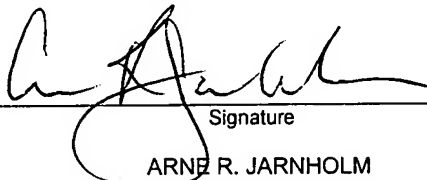
1. ☐ **Express Abandonment**
I request that the above-identified application be expressly abandoned as of the filing date of this paper.
2. ☒ **Express Abandonment in Favor of a Continuing Application**
I request that the above-identified application be expressly abandoned as of the filing date accorded the continuing application filed previously or herewith.

NOTE: A paper requesting express abandonment of an application is not effective unless and until an appropriate USPTO official recognizes and acts on the paper. See the Manual of Patent Examining Procedure (MPEP), section 711.01.

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- I am the: ☐ applicant.
- ☐ assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)
- ☒ attorney or agent of record. Attorney or agent registration number is 30,396
- ☐ attorney or agent acting under 37 CFR 1.34, who is authorized under 37 CFR 1.138(b) because the application is expressly abandoned in favor of a continuing application (box 2 above must be checked). Attorney or agent registration number is _____


Signature

ARNE R. JARNHOLM

Typed or printed name

4-02-07
Date

(302) 992-2394

Telephone Number

Note: Signature of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below.

☐ Total of _____ forms are submitted.

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Received
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APR 2 2007 11:02AM WD 6666 P. 1

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11/438518
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Express Abandonment

Page 1 of 2

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PAGE 1/2 * RCVD AT 4/2/2007 11:05:40 AM [Eastern Daylight Time] * SVR:USPTO-EFAXF-3/17 * DUS:2738300 * CSID:302 992 3257 * DURATION (mm:ss):01:10



DuPont Electronic Laboratory Notebook

Identification Number : D100052-28.01

Experiment Name : D100052-13

Program Name : Zenite

Project Name:Thermoconductivity for Joel Citron

Document Name : D100052-13 series Thermal Conductive Zenite Joel Citron.pdf

Site Name : EXP ST

Business Unit :Engineering Polymers

Author Name : Mike J. Molitor

Date : 02/26/2007 14:59:57

Co-Author Details :

Witness Name : Adcock, Dave

Date : 02/26/2007 15:03:04

Date (GMT)	Signed by
2/26/2007 07:59:57 PM	Name: Mike J. Molitor
	Pre-Sig Hash: 9b9c723fedbb8ec913753be9ae4abc415c4f0fa1
Justification	By entering your password you verify that you planned and/or executed the work, directed the work, analyzed the result, or drew the conclusions described within this document.

2/26/2007 08:03:05 PM	Name: Adcock, Dave
	Pre-Sig Hash: 4004778267da1f14aed9d10dd217ba30817d5b91
Justification	By entering your password you will be signing to say that you have witnessed the information contained in this document

	Name:
	Pre-Sig Hash:
Justification	

	Name:
	Pre-Sig Hash:
Justification	

	Name:
	Pre-Sig Hash:
Justification	

	Name:
	Pre-Sig Hash:
Justification	

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E.I. du Pont de Nemours and Company

Sample # D100052
Zenite 6000
Jetfil Talc 575C
Carbon fiber Sigrafil

13-1 13-2
55
37
8

66

E. I. du Pont de Nemours and Company

DATE 10/1/06

CHARGE E 110149-77

PURPOSE Comp

JRN 2006-206 DATE 10/1/06 TECHNICIAN M. J. 10/1/06

RESEARCHER M. J. 10/1/06

NOTEBOOKING E 110149-77

SCREENING E 110149-77

DIE SIZE 214 ADAPTERS 214

POLYMER ZENITE 6000

INTERLOCKS CHECKED

RUN STARTED/COMPLETED

AUXILIARY EQUIPMENT USED

575C 114 CUTTER 114

575C 114 CUTTER 114

SAMPLE #	TIME	SET	PTS	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
BARREL 2	320	314	352							
BARREL 3	320	309	309							
BARREL 4	320	309	309							
BARREL 5	320	309	309							
BARREL 6	320	309	309							
BARREL 7	320	309	309							
BARREL 8	320	309	309							
BARREL 9	320	309	309							
BARREL 10	320	309	309							
BARREL 11	320	309	309							
BARREL 12	320	309	309							
BARREL 13	320	309	309							
DIE	320	309	309							
ADAPTER	320	309	309							
SCREW SPEED	320	309	309							
TORQUE	320	309	309							
DIE PRESS	320	309	309							
VACUUM	320	309	309							
DOCA	320	309	309							
DOCV	320	309	309							
FEED 1 PPH	320	309	309							
FEED 2 PPH	320	309	309							
FEED 3 PPH	320	309	309							
PUMP GPH	320	309	309							
RATE (PPH)	320	309	309							
PANEL MELT	320	309	309							
HAND MELT	320	309	309							
CUTTER SPD	320	309	309							

COMMENTS

EXPERIMENTED BY Stephen R. Reithell

DATE 10/1/06

DATE 10-31-06

57 m/h diff.

BOOK PAGE

E. I. du Pont de Nemours and Company

DATE 10-30-06

CHARGE 6 02 A INJECTION MOLDING

E 111563- 36

PURPOSE POLYMERAL TESTING

JR NO. 1275 NB NO. D 100052

DATE 10-30-06

CYLINDER 6 02 A

FOR ANALYSIS

CHARGE/BU 5.0

RAM SPEED 500

POLYMER TYPE ZENITE

SCREW 6.0

SCREW SPEED -

MOLD 114 (E-T)

NOZZLE 2 702

BACK PRESS 100

SAMPLE NO.	REAR	CENTER	FRONT	NOZZLE	MOLD TEMP		CYCLE			PRESS BOOST	PRESS INJ	MELT	SURF. RM.
					A	B	S	I	H				
13-2	325	332	332	323	100	100	2	15	15	350	235		360

[illegible]



DuPont Electronic Laboratory Notebook

Identification Number : D100008 32.02

Experiment Name : D100008-18

Program Name : Zenite

Project Name:Thermal Conductivity

Document Name : ThermalConductivityofD100052-13-1and13-2.pdf

Site Name : EXP ST

Business Unit :Engineering Polymers

Author Name : Adcock, Dave

Date : 02/26/2007 12:57:03

Co-Author Details :

Witness Name : Harvey, Pat A.

Date : 02/26/2007 13:07:04

Date (GMT)	Signed by
2/26/2007 05:57:03 PM	Name: Adcock, Dave
	File-Sig Hash: Da360862D1915581C4745164261360a675613794
Justification	By entering your password you verify that you planned and/or executed the work, directed the work, analyzed the result, or drew the conclusions described within this document.

2/26/2007 06:07:04 PM	Name: Harvey, Pat A.
	Pre-Sig Hash: 73b0cadeclbdebf8234bdc64d81ae2e301af81ba
Justification	By entering your password you will be signing to say that you have witnessed the information contained in this document

	Name:
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Justification	

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Justification	

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	Pre-Sig Hash:
Justification	

	Name:
	Pre-Sig Hash:
Justification	

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USING TEST FILE : 13-1.tst
DATE : 11/01/06

TEST DESCRIPTION

3100052-13-1

Injection molded disc

SAMPLE ID : 13-1
SAMPLE THICKNESS: 3.030mm

Average sample temperature = 50 C Controller= 30 C

TU (C)	TG (C)	TL (C)	TH (C)	TU-TL (C)	Q	RATIO
50.0	48.2	40.4	30.0	19.64	9472.1	0.211266
60.6	48.0	40.8	29.5	19.75	10096.7	0.195657
60.6	48.1	40.9	29.5	19.73	10107.1	0.195166

Average sample temperature = 75 C Controller= 55 C

TU (C)	TG (C)	TL (C)	TH (C)	TU-TL (C)	Q	RATIO
78.1	65.9	58.4	49.3	19.74	8854.4	0.233231
85.2	72.0	65.6	54.7	19.63	10161.7	0.193207
85.2	72.0	65.6	54.7	19.62	10167.3	0.193013

USING CALIBRATION FILE: ESI04200.cal
USING TEST FILE : 13-1.tst

USING FIRST ORDER FIT

SAMPLE ID : 13-1
SAMPLE THICKNESS : 3.030mm
CTE : 0.000e+000

THE SAMPLE HAS A THERMAL CONDUCTIVITY OF: $3.651347e-001$ W/mK
AND A THERMAL RESISTANCE OF: $8.296308e-003$ m²K/W
AT A TEMPERATURE OF: 50.75 C

0.365 W/mK

THE DELTA T THROUGH THE SAMPLE IS : 19.73 C
THE HEATER TEMPERATURE IS : 29.54 C
THE DELTA T ACROSS THE STACK IS : 31.10 C
THE GUARD TEMPERATURE IS : 48.10 C

THE SAMPLE HAS A THERMAL CONDUCTIVITY OF: $3.702624e-001$ W/mK
AND A THERMAL RESISTANCE OF: $8.183385e-003$ m²K/W
AT A TEMPERATURE OF: 75.40 C

0.370 W/mK

THE DELTA T THROUGH THE SAMPLE IS : 19.62 C
THE HEATER TEMPERATURE IS : 54.66 C
THE DELTA T ACROSS THE STACK IS : 30.55 C
THE GUARD TEMPERATURE IS : 72.02 C



DuPont Electronic Laboratory Notebook

Identification Number : D100008 32.02

Experiment Name : D100008-18

Program Name : Zenite

Project Name: Thermal Conductivity

Document Name : ThermalConductivityofD100052-13-1and13-2.pdf

Site Name : EXP ST

Business Unit :Engineering Polymers

Author Name : Adcock, Dave

Date : 02/26/2007 12:57:03

Co-Author Details :

Witness Name : Harvey, Pat A.

Date : 02/26/2007 13:07:04

Date (GMT)	Signed by
2/26/2007 05:57:03 PM	Name: Adcock, Dave Pre-Sig Hash: Da960462D1913361C2746/64261360ab956/3792
Justification	By entering your password you verify that you planned and/or executed the work, directed the work, analyzed the result, or drew the conclusions described within this document.

2/26/2007 06:07:04 PM	Name: Harvey, Pat A. Pre-Sig Hash: 73b0cadeclbdf8234bdc64d81ae2e301af81ba
Justification	By entering your password you will be signing to say that you have witnessed the information contained in this document

	Name:
	Pre-Sig Hash:
Justification	

	Name:
	Pre-Sig Hash:
Justification	

	Name:
	Pre-Sig Hash:
Justification	

	Name:
	Pre-Sig Hash:
Justification	

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USING TEST FILE : 13-1.tst
DATE : 11/01/06

TEST DESCRIPTION

3100552-13-1

injection molded disc

SAMPLE ID : 13-1

SAMPLE THICKNESS: 3.030mm

Average sample temperature = 50 C Controller= 30 C

TU (C)	TG (C)	TL (C)	TH (C)	TU-TL (C)	Q	RATIO
50.0	48.2	40.4	30.0	19.64	9472.1	0.211266
60.6	48.0	40.8	29.5	19.75	10096.7	0.195657
60.6	48.1	40.9	29.5	19.73	10107.1	0.195166

Average sample temperature = 75 C Controller= 55 C

TU (C)	TG (C)	TL (C)	TH (C)	TU-TL (C)	Q	RATIO
78.1	65.9	58.4	49.3	19.74	8854.4	0.233231
85.2	72.0	65.6	54.7	19.63	10161.7	0.193207
85.2	72.0	65.6	54.7	19.62	10167.3	0.193013

USING CALIBRATION FILE: ESLO4200.cal
USING TEST FILE : 13-1.tst

USING FIRST ORDER FIT

SAMPLE ID : 13-1
SAMPLE THICKNESS : 3.030mm
CTE : 0.000e+000

THE SAMPLE HAS A THERMAL CONDUCTIVITY OF: 3.651347e-001 W/mK
AND A THERMAL RESISTANCE OF : 8.298308e-003 m2K/W
AT A TEMPERATURE OF : 50.78 C

0.365 W/mK

THE DELTA T THROUGH THE SAMPLE IS : 19.73 C
THE HEATER TEMPERATURE IS : 29.54 C
THE DELTA T ACROSS THE STACK IS : 31.10 C
THE GUARD TEMPERATURE IS : 48.10 C

THE SAMPLE HAS A THERMAL CONDUCTIVITY OF: 3.702624e-001 W/mK
AND A THERMAL RESISTANCE OF : 8.183385e-003 m2K/W
AT A TEMPERATURE OF : 75.40 C

0.370 W/mK

THE DELTA T THROUGH THE SAMPLE IS : 19.62 C
THE HEATER TEMPERATURE IS : 54.66 C
THE DELTA T ACROSS THE STACK IS : 30.55 C
THE GUARD TEMPERATURE IS : 72.02 C

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REASON FOR ERROR
E-1) HANG UP OR LINE FAIL
E-3) NO ANSWER

E-2) BUSY
E-4) NO FACSIMILE CONNECTION

PTO/SB/97 (09-06)

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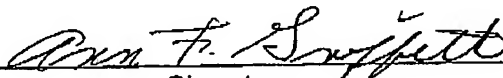
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* * * COMMUNICATION RESULT REPORT (APR. 2. 2007 11:03AM) * * *

FAX HEADER 1:
FAX HEADER 2:TRANSMITTED/STORED : APR. 2. 2007 11:02AM
FILE MODE OPTION

ADDRESS

RESULT

PAGE

6866 MEMORY TX

USPTO

OK

2/2

REASON FOR ERROR

E-1) HANG UP OR LINE FAIL
E-3) NO ANSWERE-2) BUSY
E-4) NO FACSIMILE CONNECTION

PTO/SB/97 (09-08)

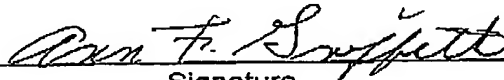
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DuPont Electronic Laboratory Notebook

Identification Number : D100052-28.01

Experiment Name : D100052-13

Program Name : Zenite

Project Name:Thermoconductivity for Joel Citron

Document Name : D100052-13 series Thermal Conductive Zenite Joel Citron.pdf

Site Name : EXP ST

Business Unit :Engineering Polymers

Author Name : Mike J. Molitor

Date : 02/26/2007 14:59:57

Co-Author Details :

Witness Name : Adcock, Dave

Date : 02/26/2007 15:03:04

Date (GMT)	Signed by
2/26/2007 07:59:57 PM	Name: Mike J. Molitor
	Pre-Sig Hash: 9b9c723fedbb8ec913753be9ae4abc415c4f0fal
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	Pre-Sig Hash: 4004778267dalf14aed9d10dd217ba30817d5b91
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	Pre-Sig Hash:
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	Name:
	Pre-Sig Hash:
Justification	

	Name:
	Pre-Sig Hash:
Justification	

	Name:
	Pre-Sig Hash:
Justification	

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E.I. du Pont de Nemours and Company

Sample # D100052
Zenite 6000
Jetfil Talc 575C
Carbon fiber Sigrafil

13-1 13-2
55
37
8

Lee

E. I. du Pont de Nemours and Company

TITLE 30-C DATE 10/1/66 E 110149-77

PURPOSE Comp

J.R.N. 2806-A10 DATE 10/1/66 TECHNICIAN W. J. 106/100 AREA NOTEBOOK PG E 110149-77

RESEARCHER W. J. 106/100 NOTEBOOK PG E 110149-77

BARREL 22 SCREW 22 SCREENS 22

DIE 1" 1" SIZE 1/4" ADAPTERS PTSV-300/3-PL-33

POLYMER Zenite 6000 CHARGE CODE 22

INTERLOCKS CHECKED ✓ RUN STARTED/COMPLETED ✓

AUXILIARY EQUIPMENT USED QUENCH TANK CHANGE TO 300 S AIR CUTTER L FEEDER 6500 S 1/2" FEEDER 220/100

SAMPLE #	SET PTS	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
TIME									
BARREL 2	376	376	376						
BARREL 3	376	376	376						
BARREL 4	376	376	376						
BARREL 5	376	376	376						
BARREL 6	376	376	376						
BARREL 7	376	376	376						
BARREL 8	376	376	376						
BARREL 9	376	376	376						
BARREL 10	376	376	376						
BARREL 11									
BARREL 12									
BARREL 13									
DIE	350	377	376						
ADAPTER									
SCREW SPEED	250	250							
TORQUE	10-12	10-11							
DIE PRESS	21-23	20-21							
VACUUM	10	10							
DCA									
DCV									
FEED 1 PPH	11.0	10.0							
FEED 2 PPH	9.0	8.0							
FEED 3 PPH									
PUMP GPM									
RATE (PPH)	21.5	20.2							
PANEL MELT	257	266							
HAND MELT									
CUTTER SPD									

COMMENTS

EXPERIMENTER Cham R. R. R. R. DATE 10/1/66

WITNESSED BY Stephen R. R. R. DATE 10-31-66

57 m. h. Diff.

BOOK PAGE E. I. du Pont de Nemours and Company

TITLE 6 OR. A INJECTION MOLDING DATE 10-30-66

E 111563- 36 PURPOSE PHYSICAL TESTING

JR NO 275 NB NO D 100052 DATE 10-30-66 CYLINDER 602 A

FOR ANALYSIS CHARGE/BBU E. I. RAM SPEED FAST

POLYMER TYPE ZENITE SCREW G. R. SCREW SPEED -

MOLD 1/4" DIA (R-7) NOZZLE 1/4" DIA BACK PRESS MIN

SAMPLE NO.	REAR	CENTER	FRONT	NOZZLE	MOLD TEMP	CYCLE	PRESS	MELT	SCREW
					A B	B I M	BOOST INJ		RAM
13-2	325	332	332	323	100 100	2 15 15	350 250		360



DuPont Electronic Laboratory Notebook

Identification Number : D100008 22.02

Experiment Name : D100008-18

Program Name : Zenite

Project Name:Thermal Conductivity

Document Name : ThermalConductivityofD100052-13-1and13-2.pdf

Site Name : EXP ST

Business Unit :Engineering Polymers

Author Name : Adcock, Dave

Date : 02/26/2007 12:57:03

Co-Author Details :

Witness Name : Harvey, Pat A.

Date : 02/26/2007 13:07:04

Date (GMT)	Signed by
2/26/2007 05:57:03 PM	Name: Adcock, Dave
	Pre-Sig Hash: 0a904e62019155610d9eb/ba2e130da0956/3792
Justification	By entering your password you verify that you planned and/or executed the work, directed the work, analyzed the result, or drew the conclusions described within this document.

2/26/2007 06:07:04 PM	Name: Harvey, Pat A.
	Pre-Sig Hash: 73b0cadeclbdebf8234bdc64d81ae2e301af81ba
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	Name:
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Justification	

	Name:
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Justification	

	Name:
	Pre-Sig Hash:
Justification	

	Name:
	Pre-Sig Hash:
Justification	

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USING TEST FILE : 13-1.tst
DATE : 11/07/06

TEST DESCRIPTION

3100052-13-1

injection molded disc

SAMPLE ID : 13-1

SAMPLE THICKNESS: 3.030mm

Average sample temperature = 50 C Controller= 30 C

TU (C)	TG (C)	TL (C)	TH (C)	TU-TL (C)	Q	RATIO
50.0	48.2	40.4	30.0	19.64	9472.1	0.211266
60.6	48.0	40.8	29.5	19.75	10096.7	0.195657
60.6	48.1	40.9	29.5	19.73	10107.1	0.195166

Average sample temperature = 75 C Controller= 55 C

TU (C)	TG (C)	TL (C)	TH (C)	TU-TL (C)	Q	RATIO
78.1	65.9	58.4	49.3	19.74	8854.4	0.233231
85.2	72.0	65.6	54.7	19.63	10161.7	0.193207
85.2	72.0	65.6	54.7	19.62	10167.3	0.193013

USING CALIBRATION FILE: ESI04200.cal
USING TEST FILE : 13-1.tst

USING FIRST ORDER FIT

SAMPLE ID : 13-1
SAMPLE THICKNESS : 3.030mm
CTE : 0.000e+000

THE SAMPLE HAS A THERMAL CONDUCTIVITY OF: 3.651347e-001 W/mK
AND A THERMAL RESISTANCE OF : 8.298308e-003 m2K/W
AT A TEMPERATURE OF : 50.78 C

0.365 W/mK

THE DELTA T THROUGH THE SAMPLE IS : 19.73 C
THE HEATER TEMPERATURE IS : 29.54 C
THE DELTA T ACROSS THE STACK IS : 31.10 C
THE GUARD TEMPERATURE IS : 48.10 C

THE SAMPLE HAS A THERMAL CONDUCTIVITY OF: 3.702624e-001 W/mK
AND A THERMAL RESISTANCE OF : 8.183385e-003 m2K/W
AT A TEMPERATURE OF : 75.40 C

0.370 W/mK

THE DELTA T THROUGH THE SAMPLE IS : 19.62 C
THE HEATER TEMPERATURE IS : 54.66 C
THE DELTA T ACROSS THE STACK IS : 30.55 C
THE GUARD TEMPERATURE IS : 72.02 C



DuPont Electronic Laboratory Notebook

Identification Number : D100052-28.01

Experiment Name : D100052-13

Program Name : Zenite

Project Name:Thermoconductivity for Joel Citron

Document Name : D100052-13 series Thermal Conductive Zenite Joel Citron.pdf

Site Name : EXP ST

Business Unit :Engineering Polymers

Author Name : Mike J. Molitor

Date : 02/26/2007 14:59:57

Co-Author Details :

Witness Name : Adcock, Dave

Date : 02/26/2007 15:03:04

Date (GMT)	Signed by
2/26/2007 07:59:57 PM	Name: Mike J. Molitor Pre-Sig Hash: 9b9c723fedbb8ec913753be9ae4abc415c4f0fal
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Justification	

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Justification	

	Name:
	Pre-Sig Hash:
Justification	

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E.I. du Pont de Nemours and Company

Sample # D100052
Zenite 6000
Jetfil Talc 575C
Carbon fiber Sigrafil

13-1 13-2
55
37
8

Lab

E. I. du Pont de Nemours and Company

TITLE 30-C DATE 10/1/66 E 110149-77

PURPOSE Comp

J.R.N. 2006-210 DATE 10/1/66 TECHNICIAN AREA NOTEBOOK PG

RESEARCHER M.S. 2061/77 NOTEBOOK PG E-2061/77

BARREL 20-C SCREW SCREENS

DIE 1" SIZE 3/4" ADAPTERS SPSY-SDM/S-56/33

POLYMER Zenite 6000 CHARGE CODE

INTERLOCKS CHECKED ✓ RUN STARTED ✓ COMPLETED ✓

AUXILIARY EQUIPMENT USED QUENCHER - CHANGE TO
30-C - 10" CUTTER - FEEDER - 1000
10" FEEDER - 1000

SAMPLE #	TIME	SET PTS	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL	ACTUAL
BARREL 2	300	300	300	300	300	300	300	300	300
BARREL 3	300	300	300	300	300	300	300	300	300
BARREL 4	300	300	300	300	300	300	300	300	300
BARREL 5	300	300	300	300	300	300	300	300	300
BARREL 6	300	300	300	300	300	300	300	300	300
BARREL 7	300	300	300	300	300	300	300	300	300
BARREL 8	300	300	300	300	300	300	300	300	300
BARREL 9	300	300	300	300	300	300	300	300	300
BARREL 10	300	300	300	300	300	300	300	300	300
BARREL 11	300	300	300	300	300	300	300	300	300
BARREL 12	300	300	300	300	300	300	300	300	300
BARREL 13	300	300	300	300	300	300	300	300	300
DIE	300	300	300	300	300	300	300	300	300
ADAPTER	300	300	300	300	300	300	300	300	300
SCREW SPEED	300	300	300	300	300	300	300	300	300
TORQUE	300	300	300	300	300	300	300	300	300
DIE PRESS	300	300	300	300	300	300	300	300	300
VACUUM	300	300	300	300	300	300	300	300	300
DCA	300	300	300	300	300	300	300	300	300
DCV	300	300	300	300	300	300	300	300	300
FEED 1 PPH	300	300	300	300	300	300	300	300	300
FEED 2 PPH	300	300	300	300	300	300	300	300	300
FEED 3 PPH	300	300	300	300	300	300	300	300	300
PUMP GPH	300	300	300	300	300	300	300	300	300
RATE (PPH)	300	300	300	300	300	300	300	300	300
PANEL MELT	300	300	300	300	300	300	300	300	300
HAND MELT	300	300	300	300	300	300	300	300	300
CUTTER SPD	300	300	300	300	300	300	300	300	300

COMMENTS

EXPERIMENTED Cham R. Paul DATE 10/1/66

WITNESSED BY Stephen R. Reithell DATE 10-31-66

57 m. diff.

BOOK PAGE E. I. du Pont de Nemours and Company

TITLE 6 OR. A INJECTION MOLDING DATE 10-30-66

E 111563-36 PURPOSE PHYSICAL TESTING

J.R.N. 275 NB NO. D 100052 DATE 10-30-66 CYLINDER 6 OR. A

FOR INJECTION CHARGE/SBU E-1 RAM SPEED FAST

POLYMER TYPE ZENITE SCREW G.P. SCREW SPEED -

MOLD 6" OR. A (E-1) NOZZLE 6" OR. A BACK PRESS 1000

SAMPLE NO.	REAR	CENTER	FRONT	NOZZLE	MOLD TEMP		CYCLE		PRESS. BOOST INJ	MELT	SWCH RAM	
					A	B	B	I				H
13-2	325	332	332	323	100	100	2	15	15	350	250	363



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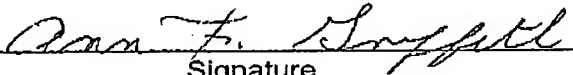
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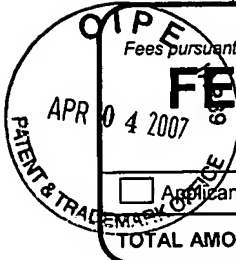
AD6900USCNT

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Effective on 12/08/2004.

Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FEE TRANSMITTAL

For FY 2005

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 130.00

Complete if Known

Application Number 11/438518
 Filing Date May 22, 2006
 First Named Inventor Michael Robert Samuels, Et Al.
 Examiner Name Quang T. Van
 Art Unit 3742
 Attorney Docket No. AD6900USCNT

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____

☒ Deposit Account Deposit Account Number: **04-1928** Deposit Account Name: **E. I. du Pont de Nemours and Company**

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FEE CALCULATION

1. BASIC FILING, SEARCH, AND EXAMINATION FEES

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid (\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	<input type="checkbox"/> 300	<input type="checkbox"/> 150	<input type="checkbox"/> 500	<input type="checkbox"/> 250	<input type="checkbox"/> 200	<input type="checkbox"/> 100	0.00
Design	<input type="checkbox"/> 200	<input type="checkbox"/> 100	<input type="checkbox"/> 100	<input type="checkbox"/> 50	<input type="checkbox"/> 130	<input type="checkbox"/> 65	0.00
Plant	<input type="checkbox"/> 200	<input type="checkbox"/> 100	<input type="checkbox"/> 300	<input type="checkbox"/> 150	<input type="checkbox"/> 160	<input type="checkbox"/> 80	0.00
Reissue	<input type="checkbox"/> 300	<input type="checkbox"/> 150	<input type="checkbox"/> 500	<input type="checkbox"/> 250	<input type="checkbox"/> 600	<input type="checkbox"/> 300	0.00
Provisional	<input type="checkbox"/> 200	<input type="checkbox"/> 100	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	<input type="checkbox"/> 0	0.00

2. EXCESS CLAIM FEES

Fee Description

Each claim over 20 (including Reissues)
 Each independent claim over 3 (including Reissues)
 Multiple dependent claims

Fee (\$)	Small Entity Fee (\$)
50	25
200	100
360	180

Total Claims Extra Claims Fee (\$)

- 20 or HP = _____ x 50.00 = _____

HP = highest number of total claims paid for, if greater than 20.

Indep. Claims Extra Claims Fee (\$)

- 3 or HP = _____ x 200.00 = _____

HP = highest number of independent claims paid for, if greater than 3.

Multiple Dependent Claims

YES ☐ Fee (\$)

360.00

Fee Paid (\$)

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listings under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets Extra Sheets Number of each additional 50 or fraction thereof Fee (\$)

- 100 = _____ / 50 = _____ (round up to a whole number) x 250.00 = _____

Fee Paid (\$)

4. OTHER FEE(S)

Non-English Specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Terminal Disclaimer

130.00

SUBMITTED BY

Signature

Registration No. 30,396
(Attorney/Agent)

Telephone (302) 992-2394

Name (Print/Type)

Arne R. Jarnholm

Date 4-02-07

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